

[54] SMALL APPARATUS FOR DISPENSING
CIRCULAR PLATE OBJECTS

FOREIGN PATENT DOCUMENTS

3602291 7/1989 Germany .

[75] Inventors: Hiroshi Abe; Noboru Ichihara, both of
Iwatsuki, Japan

Primary Examiner—F. J. Bartuska
Attorney, Agent, or Firm—Quirk & Tratos

[73] Assignee: Asahi Seiko Co. Ltd., Tokyo, Japan

[57] ABSTRACT

[21] Appl. No.: 09/151,531

[22] Filed: Sep. 11, 1998

[30] Foreign Application Priority Data

Sep. 12, 1997	[JP]	Japan	9-287541
Sep. 18, 1997	[JP]	Japan	9-291470
Dec. 19, 1997	[JP]	Japan	9-370005

[51] Int. Cl.⁷ G07D 1/00

[52] U.S. Cl. 453/57; 221/241

[58] Field of Search 453/13, 33, 49,
453/57; 221/241; 222/305

An apparatus for dispensing disc bodies such as coins or tokens is set forth which includes a fixed substrate and a dispensing disc spaced from said substrate a distance related to the thickness of said disc bodies. The dispensing disc includes a plurality of openings having a diameter adapted to receive a disc body for dispensing thereof. The dispensing disc is attached to a shaft which is axially moveable to adjust the space between the dispensing disc and substrate. The shaft is connected to a motor through an axially aligned planetary gear apparatus. Rotation of the dispensing disc receives coins or tokens in the openings and space whereupon the coins are moved for dispensing. An elevation body engages the dispensing disc and includes a plurality of annular teeth. An adjustment body has teeth to engage the elevation body teeth. Rotation of the adjustment body axially adjusts the elevation body and dispensing disc to adjust the space to accept different thicknesses of coins.

[56] References Cited

U.S. PATENT DOCUMENTS

2,959,324	11/1960	Hendrickson et al.	221/241 X
5,316,517	5/1994	Chiba	453/57
5,711,704	1/1998	Hughes et al.	453/57

7 Claims, 6 Drawing Sheets

